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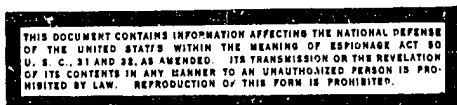
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THIS IS UNEVALUATED INFORMATION

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INVENTIONS SPEED COAL LOADING, STEEL CASTING;
POOR WORKING CONDITIONS REPORTED

DEVELOP NEW MECHANISMS, REDUCE COSTS -- Izgreve, No 1766, 21 Jun 50

Papers on new, rationalized methods of transporting coal and casting steel were read at the recent meeting of the Scientific and Technical Association of Dimitrovo.

Technician and efficiency expert Al. Abadzhiev of the Temelko Nenkov Mine described his "extension hand" for chain conveyers. At present, 14 mechanisms of this new type have already been put into service and have saved several million leva of transport costs.

Gr. Radev, technician of the Brigadir Mine, reported on his method of loading coal with the new "speed shovel." Although the shovel has not been perfected, it has already been used with considerable success, especially in horizontal shafts. By working with the speed shovel, coal diggers have exceeded their norms by 200 percent, whereas they could reach only 145 percent under the old system. Likewise, only 20 to 40 one-ton coal cars could be loaded formerly in one 8-hour shift, while 100 can be loaded with the help of the speed shovel.

Georgi Bindzhapov, chief supervisor of the Stalin Machine Works, announced his new system of steel casting in molds. The new method has already replaced the old in the production of machine parts and is giving excellent results. Thus, casting one ton of metal previously required 15 to 20 square meters of foundry floor area, whereas it can now be cast in 3 square meters; and labor productivity has reached 250 percent, even for new, unskilled personnel. Quality also has considerably improved, waste has been reduced, and use of additional material for finishing reduced to a minimum. Furthermore, 50 percent of the quartz sand is saved, and the cost of the finished product has been reduced, on the average, by 3 leva per kilogram.

Another improvement of the new system is that a number of cores can be cast simultaneously on several levels, whereas previously each core had to be cast

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separately. Various machine parts can now be cast at great speed. Thus, for example, gear wheels for mine conveyers previously required 2 hours for casting, and can now be produced in 40 minutes; gear wheels for mine trolleys, which used to take 4 hours, now require 100 minutes; and gear wheels for hoists can be manufactured in 30 minutes instead of 2 hours.

On the average, working time for the production of 50 types of machine parts has been reduced under the new method by $2\frac{1}{2}$ times.

Another advantage of the invention is that the work can now be done by unskilled workers and women.

At present, Glodzhapov is working on further improvement of the new system which will permit casting more complicated machine parts, and is designing cores for these parts.

SCORE SANITARY CONDITIONS AT PLANT -- Izgrad, No 1767, 22 Jun 50

Workers of the Bluestone Plant in Sliven are working under very poor sanitary conditions resulting from the absence of air-humidifying equipment. The workers have to sprinkle the building with water, but receive very little relief by this system. The production reflects the unsatisfactory working conditions, especially because the cotton weaving and spinning machines cause very bad air conditions. The management has requested air-humidifying equipment, but the request was turned down by the association because of the shortage of funds.

The unsatisfactory working conditions may be one of the reasons why many workers at the new enterprise leave the plant.

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